

DIN EN ISO 6709:2023-01 (E)

Standard representation of geographic point location by coordinates (ISO 6709:2022); English version EN ISO 6709:2022

| Contents | | Page |
|---|--|-------------|
| Foreword | | iv |
| Introduction | | vi |
| 1 Scope | | 1 |
| 2 Normative references | | 1 |
| 3 Terms and definitions | | 1 |
| 4 Abbreviated terms and character code notations | | 4 |
| 4.1 Abbreviated terms..... | | 4 |
| 4.2 Character code notations..... | | 5 |
| 5 Conformance | | 5 |
| 6 Geographic point location (GPL) representation | | 5 |
| 6.1 Overview..... | | 5 |
| 6.2 Component representation..... | | 6 |
| 6.3 Coordinate tuple..... | | 6 |
| 6.4 Character string delimiters and terminator notation..... | | 7 |
| 6.5 CRS identifier structure..... | | 8 |
| 6.6 Text string representation..... | | 10 |
| 6.6.1 Background..... | | 10 |
| 6.6.2 Formatting rules for angular measures..... | | 10 |
| 6.6.3 Component structure..... | | 12 |
| 7 Human-readable GPL representation | | 16 |
| 7.1 Overview of human-readable GPL representation..... | | 16 |
| 7.2 General requirements of human-readable GPL representation..... | | 16 |
| 7.3 Formatted examples of human-readable text strings..... | | 18 |
| Annex A (normative) Conformance and abstract test suite | | 20 |
| Annex B (normative) Backwards compatible representation of geographic point location | | 23 |
| Annex C (informative) Uniqueness of latitude and longitude coordinates | | 29 |
| Annex D (informative) Latitude and longitude resolution | | 30 |
| Annex E (informative) Changes compared to ISO 6709:2008 | | 31 |
| Annex F (normative) Character encodings | | 33 |
| Bibliography | | 35 |